

Title (en)

CONTROL APPARATUS AND METHOD FOR DETECTING A TYPE OF LOAD

Title (de)

STEUERVORRICHTUNG UND VERFAHREN ZUR DETEKTION EINER LASTART

Title (fr)

DISPOSITIF DE COMMANDE ET PROCÉDÉ DE DÉTECTION D'UN TYPE DE CHARGE

Publication

EP 2596682 A2 20130529 (DE)

Application

EP 11732355 A 20110406

Priority

- DE 102010048980 A 20101020
- DE 102010015625 A 20100419
- EP 2011001696 W 20110406

Abstract (en)

[origin: WO2011131291A2] The invention relates to a control apparatus (1) for controlling a load (4), wherein the control apparatus (1) can be connected between a voltage source (2) and the load (4), having a control circuit (8), a first switch (S3) which is driven by the control circuit (8) and controls a current flowing from the voltage source (2) to the load (4) in order to operate the load (4), and a load type detector (6). The invention proposes that the load type detector (6) comprises means (Z1, Z2, S1, S2) for applying a test signal to the load (4) and at least one measuring device (M1, M2), wherein, for the purpose of detecting the type of load (4), the control apparatus (1) is set up to carry out the following first detection steps: driving of the means (Z1, Z2, S1, S2) for applying the test signal to the load (4) by means of the control circuit (8) with the first switch (S3) open, wherein the application of the test signal results in a test current flowing through the load (4) and in a test voltage being dropped across the load (4), recording of at least one variable derived from the test current and/or the test voltage by means of the measuring device (M1, M2), and detection of the type of load by analysing the recorded variable.

IPC 8 full level

H05B 37/02 (2006.01)

CPC (source: EP US)

G01R 27/02 (2013.01 - US); **H05B 41/36** (2013.01 - EP US); **H05B 45/14** (2020.01 - EP US)

Citation (search report)

See references of WO 2011131291A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102010048980 A1 20111020; EP 2596682 A2 20130529; EP 2596682 B1 20160608; US 2013093440 A1 20130418; WO 2011131291 A2 20111027; WO 2011131291 A3 20120119

DOCDB simple family (application)

DE 102010048980 A 20101020; EP 11732355 A 20110406; EP 2011001696 W 20110406; US 201113642196 A 20110406